Available online at www.sciencedirect.com
SCIENCE DIRECT®
ELSEVIER
Journal of Hydrology 288 (2004) 356–357
Journal of Hydrology
www.elsevier.com/locate/jhydrol

Contents of Volume 288

Vol. 288, Nos. 1–4 **March 30, 2004**

Preface
Quantitative Precipitation Forecasting II
R. Krzysztofowicz and C. G. Collier 1
Measurement and Assimilation 2
Dual-frequency links—a complement to gauges and radar for the measurement of rain
A. R. Rahimi, G. J. G. Upton and A. R. Holt 3
Determination of precipitation rates and yields from lightning measurements
J. Latham, A. M. Blyth, H. J. Christian Jr., W. Deierling and A. M. Gadian 13
Rainfall assimilation in RAMS by means of the Kuo parameterisation inversion: method and preliminary results
A. Orlandi, A. Ortolani, F. Meneguzzo, V. Levizzani, F. Torricella and F. J. Turk 20
Analysis and Development 36
Sensitivity of meteorological high-resolution numerical simulations of the biggest floods occurred over the Arno river basin, Italy, in the 20th century
F. Meneguzzo, M. Pasqui, G. Menduni, G. Messeri, B. Gozzini, D. Grifoni, M. Rossi and G. Maracchi 37
Convection-resolving precipitation forecasting and its predictability in Alpine river catchments
A. Walser and C. Schär 57
Development of a precipitation nowcasting algorithm based upon optical flow techniques
N. E. H. Bowler, C. E. Pierce and A. Seed 74
A Bayesian state space modelling approach to probabilistic quantitative precipitation forecasting
D. Cornford 92
Precipitation calculation method based on parameterization of distribution function evolution and its performance in global spectral atmospheric model
I. V. Akimov 105
Forecasting and Verification 121
Some contrasts between good and bad forecasts of warm season MCS rainfall
I. Jankov and W. A. Gallus Jr. 122
Experimental weekly to seasonal, global to regional US precipitation forecasts
J. Roads 153
Operational model for forecasting location specific quantitative precipitation and probability of precipitation over India
P. Maini, A. Kumar, S. V. Singh and L. S. Rathore 170
Short-range quantitative precipitation forecasting in Hong Kong
P. W. Li and E. S. T. Lai 189
Performance of a coupled atmosphere-streamflow prediction system at the Pyungchang River IHP basin
K.-H. Chang, J.-H. Kim, C.-H. Cho, D.-H. Bae and J. Kim 210
Fairplay in the verification of operational quantitative precipitation forecasts
M. Göber, C. A. Wilson, S. F. Milton and D. B. Stephenson 225
Hydrodynamic and geomorphologic dispersion: scale effects in the Illinois River Basin
A. B. White, P. Kumar, P. M. Saco, B. L. Rhoads and B. C. Yen 237
Frontal progression of a juxtaposed ice cover on the Elbe river
B. Boehrer, M. Tibke and U. Suhr 258
Scale-invariance laws in the recurrence interval of extreme floods: an application to the upper Po river valley (northern Italy)
A. Mazzarella and F. Rapetti 264
Transfer function-noise modelling of irregularly observed groundwater heads using precipitation data
M.-J. Yi and K.-K. Lee 272
A spatial interpolation method based on radial basis function networks incorporating a semivariogram model
G.-F. Lin and L.-H. Chen 288

doi: 10.1016/S0022-1694(04)00083-6

Available online at www.sciencedirect.com
SCIENCE DIRECT®
ELSEVIER
Journal of Hydrology 288 (2004) 356–357
Journal of Hydrology
www.elsevier.com/locate/jhydrol

Contents of Volume 288

Vol. 288, Nos. 1–4 **March 30, 2004**

Preface
Quantitative Precipitation Forecasting II
R. Krzysztofowicz and C. G. Collier 1
Measurement and Assimilation 2
Dual-frequency links—a complement to gauges and radar for the measurement of rain
A. R. Rahimi, G. J. G. Upton and A. R. Holt 3
Determination of precipitation rates and yields from lightning measurements
J. Latham, A. M. Blyth, H. J. Christian Jr., W. Deierling and A. M. Gadian 13
Rainfall assimilation in RAMS by means of the Kuo parameterisation inversion: method and preliminary results
A. Orlandi, A. Ortolani, F. Meneguzzo, V. Levizzani, F. Torricella and F. J. Turk 20
Analysis and Development 36
Sensitivity of meteorological high-resolution numerical simulations of the biggest floods occurred over the Arno river basin, Italy, in the 20th century
F. Meneguzzo, M. Pasqui, G. Menduni, G. Messeri, B. Gozzini, D. Grifoni, M. Rossi and G. Maracchi 37
Convection-resolving precipitation forecasting and its predictability in Alpine river catchments
A. Walser and C. Schär 57
Development of a precipitation nowcasting algorithm based upon optical flow techniques
N. E. H. Bowler, C. E. Pierce and A. Seed 74
A Bayesian state space modelling approach to probabilistic quantitative precipitation forecasting
D. Cornford 92
Precipitation calculation method based on parameterization of distribution function evolution and its performance in global spectral atmospheric model
I. V. Akimov 105
Forecasting and Verification 121
Some contrasts between good and bad forecasts of warm season MCS rainfall
I. Jankov and W. A. Gallus Jr. 122
Experimental weekly to seasonal, global to regional US precipitation forecasts
J. Roads 153
Operational model for forecasting location specific quantitative precipitation and probability of precipitation over India
P. Maini, A. Kumar, S. V. Singh and L. S. Rathore 170
Short-range quantitative precipitation forecasting in Hong Kong
P. W. Li and E. S. T. Lai 189
Performance of a coupled atmosphere-streamflow prediction system at the Pyungchang River IHP basin
K.-H. Chang, J.-H. Kim, C.-H. Cho, D.-H. Bae and J. Kim 210
Fairplay in the verification of operational quantitative precipitation forecasts
M. Göber, C. A. Wilson, S. F. Milton and D. B. Stephenson 225
Hydrodynamic and geomorphologic dispersion: scale effects in the Illinois River Basin
A. B. White, P. Kumar, P. M. Saco, B. L. Rhoads and B. C. Yen 237
Frontal progression of a juxtaposed ice cover on the Elbe river
B. Boehrer, M. Tibke and U. Suhr 258
Scale-invariance laws in the recurrence interval of extreme floods: an application to the upper Po river valley (northern Italy)
A. Mazzarella and F. Rapetti 264
Transfer function-noise modelling of irregularly observed groundwater heads using precipitation data
M.-J. Yi and K.-K. Lee 272
A spatial interpolation method based on radial basis function networks incorporating a semivariogram model
G.-F. Lin and L.-H. Chen 288

doi: 10.1016/S0022-1694(04)00083-6

Catchment soil moisture and rainfall characteristics as determinant factors for discharge/suspended sediment hysteretic loops in a small headwater catchment in the Spanish pyrenees
M. Seeger, M.-P. Errea, S. Beguería, J. Arnáez, C. Martí and J. M. García-Ruiz 299
Interactions between groundwater and surface water at river banks and the confluence of rivers
L. Lambs 312
The problem of salt recycling and seawater intrusion in coastal irrigated plains: an example from the Kiti aquifer (Southern Cyprus)
E. Milnes and P. Renard 327
Estimation of the evapotranspiration rate from diurnal groundwater level fluctuations in the Okavango Delta, Botswana
P. Bauer, G. Thabeng, F. Stauffer and W. Kinzelbach 344